

- Prior Art -**Figure 1(a)**

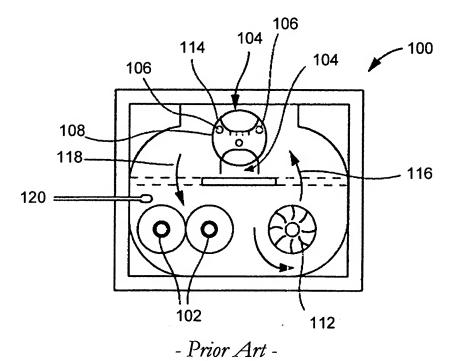
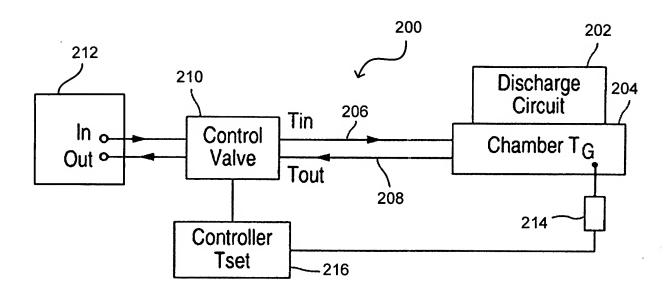
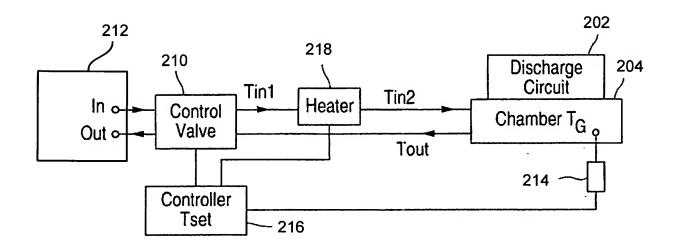


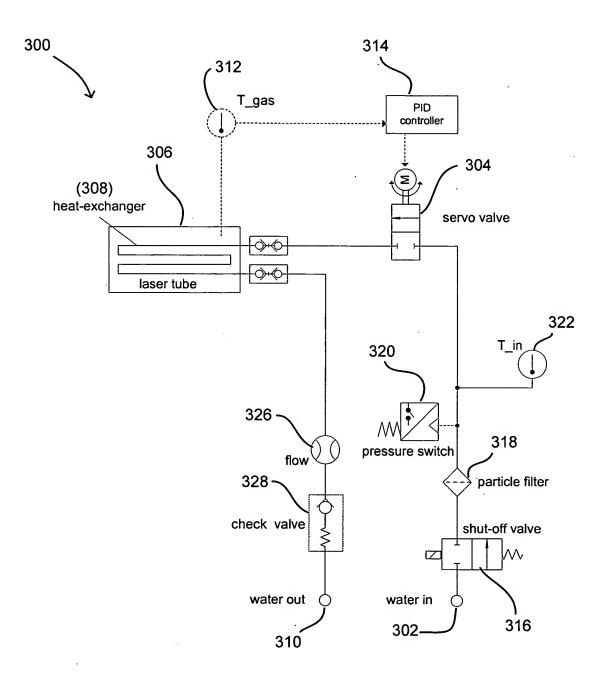
Figure 1(b)



- Prior Art -**Figure 2(a)**



- Prior Art -**Figure 2(b)**



- Prior Art -

Figure 3

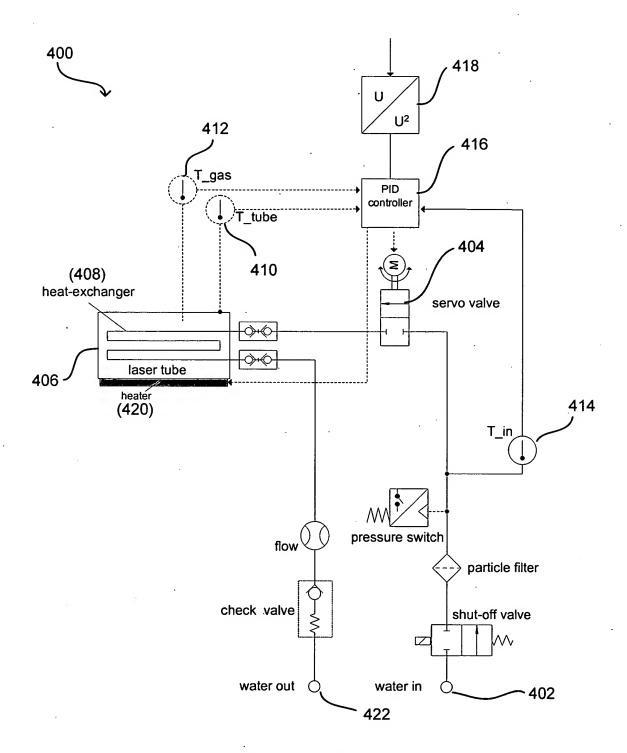


Figure 4

500 Direct a flow or relatively cool fluid through a heat exchanger in a gas discharge laser tube in order to remove heat from the laser tube <u>502</u> Measure the gas temperature in the laser tube, and optionally the temperature of the relatively cool fluid and laser tube, and provide the temperature(s) to a system controller 504 Examine the pulse pattern and determine an appropriate minimum time period over which the energy transferred to the laser tube should be calculated 506 Calculate the energy transferred to the laser tube during that time period and provide the result to the system controller as an amount of energy dissipation or heat generation <u>508</u> Send an adjustment signal from the system controller to a control valve capable of varying the amount of cooling fluid

Figure 5

entering the heat exchanger in the laser tube

<u>51</u>0

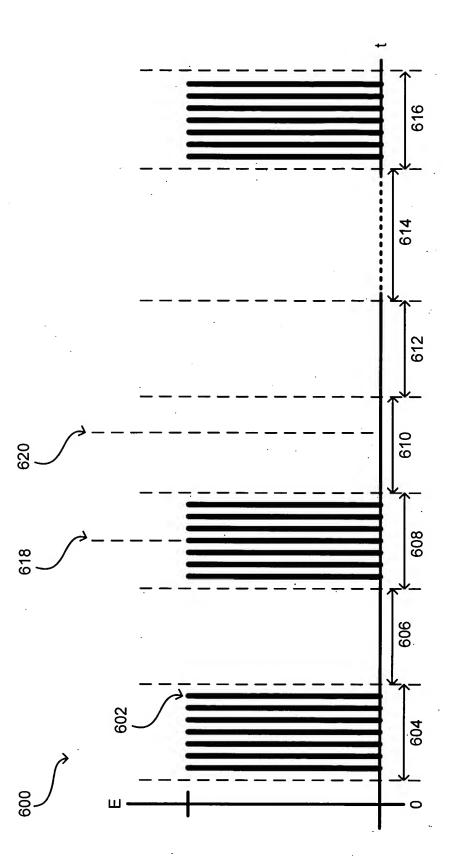


Figure 6